

Author: Kazuki Abe

ID: 236

Title: Filter-Inductor Current Sensorless Control within IRM-ILQ Optimal Current Control for PMSM with Inverter Output LC-filter

Biography

Kazuki Abe (Student Member, IEEE) received the B.S. and M.S. in electrical engineering from Shibaura Institute of Technology, Japan, in 2023 and 2025, respectively, where he is currently pursuing Ph. D degree. He received the Second Best Paper Award from IEEE International Conference on Renewable Energy Research and Applications (ICRERA) in September 2023, and Electrical Engineering and Computer Science Award from Graduate School of Engineering and Science, Shibaura Institute of Technology in March 2025. He is supported by JST SPRING, Grant Number JPMJSP2168 during the doctoral research. His research interests include power electronics applications, mainly optimal control of permanent magnet synchronous motors using a modern control theory.

